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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/598,023	06/15/2007	Lucy M. MacGregor	DYOUP0319US	9312	
23908 RENNER OT	7590 03/18/201 FO BOISSELLE & SKI	EXAM	EXAMINER		
1621 EUCLID AVENUE NINETERYTH FLOOR CLEVELAND, OH 44115			CHERRY, STEPHEN J		
			ART UNIT	PAPER NUMBER	
		2863	•		
			MAIL DATE	DELIVERY MODE	
			03/18/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Applicant(s) 10/598,023 MACGREGOR ET AL.

Application No.

Office Action Summary	Examiner	Art Unit				
	Stephen J. Cherry	2863				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL. WHICHEVER IS LONGER, FROM THE MAILING DV - Extensions of time may be available under the provisions of 37 CPR 1.15 - Extensions of time may be available under the provisions of 37 CPR 1.15 - Extensions of time may be available under the provisions of 37 CPR 1.15 - Extensions of time the provision of 37 CPR 1.15 - Individual to the provision of the second of the provision o	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a repty be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 17 October 2007.						
·- · · · · · · · · · · · · · · · · · ·	action is non-final.					
3)☐ Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
· _						
4) Claim(s) <u>1-56</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement					
o) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	⊢(d) or (f).				
 Certified copies of the priority documents have been received. 						
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	-	ed in this Nationa	Stage			
application from the International Bureau						
* See the attached detailed Office action for a list	or the certified copies not receive	d.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No(s)/Mail Da 	(P10-413) ite				
2) The continue Ricci course Contago and (CTR) (CR)	5) Notice of Informal P					

Notice of References Cited (PTO-892)	4) Interview
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N
2) The control Standard Chatery and A. (ET-SICSISS)	5) Notice of

6) Other: _____

Paper No(s)/Mail Date _____.

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-36, 51-52, and 55, drawn to method and volume of hydrocarbon using combination of vertical gradient of electrical field data and magnetic field data to generate response data.

Group 2, claim(s) 37-50, and 53-54, drawn to method and apparatus for obtaining measurements at different heights.

The inventions listed as Groups 1 and 2 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: group 1 relates to combining of vertical gradient of electrical field data with magnetic field data to form response data, whereas group 2 relates to obtaining data at different heights.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Cherry whose telephone number is (571) 272-2272. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew A. Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/S. J. C./ Examiner, Art Unit 2863

> Drew A. Dunn /Drew A. Dunn/ Supervisory Patent Examiner, Art Unit 2863